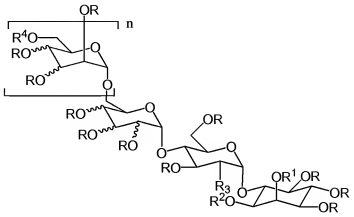
In the Claims:

1. **(previously presented)** A compound represented by formula **I**:



I

wherein,

n is 1, 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 and R^2 are independently H, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_2$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or $P(O)OR^5$;

R^3 is amino, -N_3, or -NH_3X;

R^4 represents independently for each occurrence alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$, or $-P(O)(OR^5)_2$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.

2. **(canceled)**

3. **(original)** The compound of claim 1, wherein n is 3.

4. **(original)** The compound of claim 1, wherein R is H.

5. (**original**) The compound of claim 1, wherein R^1 and R^2 taken together are $P(O)OR^5$.

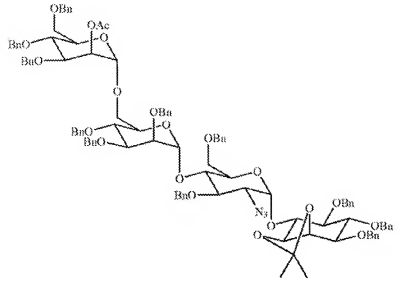
6. (**original**) The compound of claim 1, wherein R^3 is N_3.

7. (**original**) The compound of claim 1, wherein R^3 is $-NH_3X$.

8. (**previously presented**) The compound of claim 1, wherein R^4 represents independently for each occurrence $-CH_2Ph$, or $-Si(alkyl)_3$.

9. (**previously presented**) The compound of claim 1, wherein R^4 represents independently for each occurrence $-CH_2Ph$, -or $P(O)OR^5$; and R^5 is an optionally substituted alkyl group.

10. (**currently amended**) A compound selected from the group consisting of:



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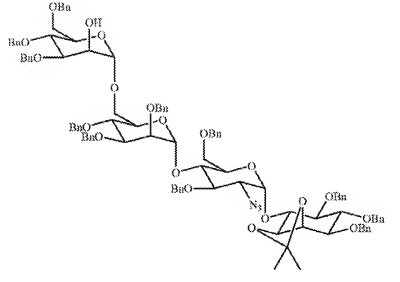

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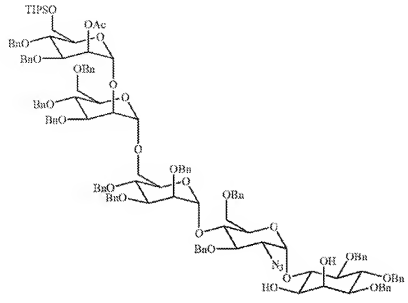
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OAc
BnO
BnO
OBn
O
BnO
BnO
O
OBn
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BnO
OBn
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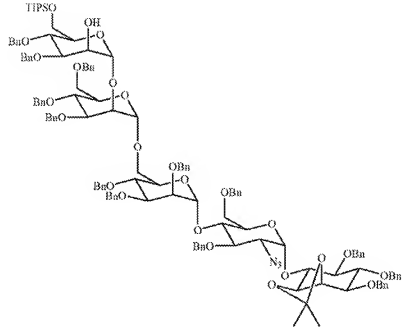
BnO
N3
O
OH
OBn
HO
OBn

,


TIPSO
OH
BnO
BnO
OBn
O
BnO
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O
OBn
BnO
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OBn
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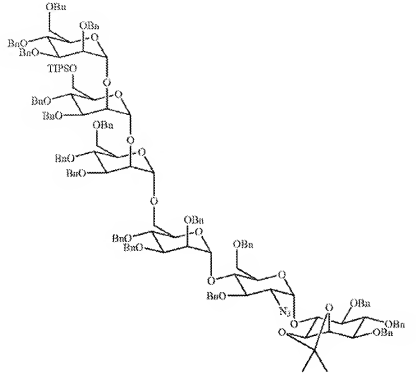
BnO
N3
O
O
OBn
O
OBn

,



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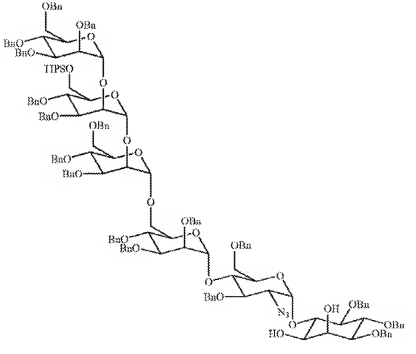

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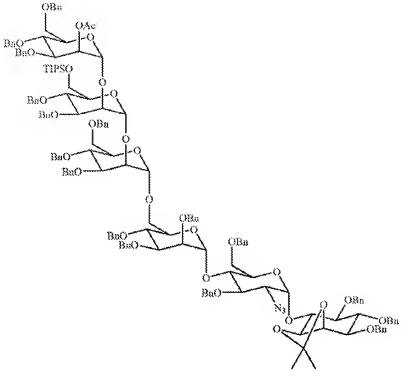
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BnO
TIPSO
O
BnO
BnO
OBn
BnO
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OBn
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BnO
N3
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OBn
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OBn
OBn

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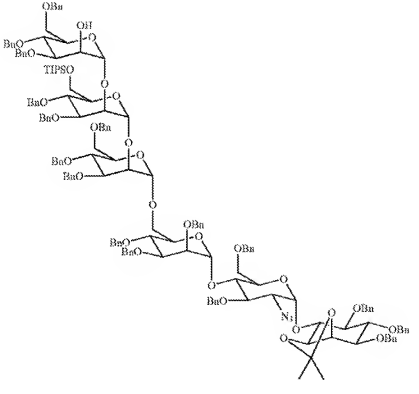
OBn
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TIPSO
O
BnO
BnO
OBn
BnO
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BnO
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N3
O
OBn
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OBn
OBn

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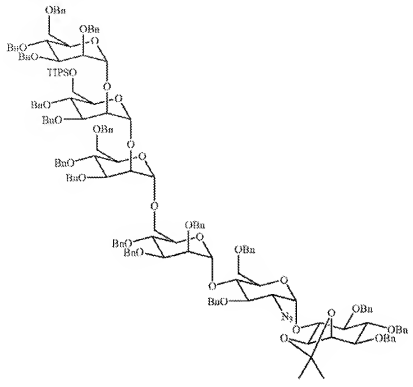

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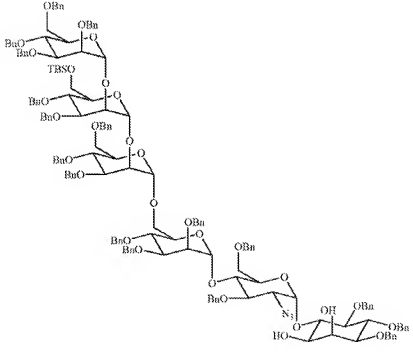

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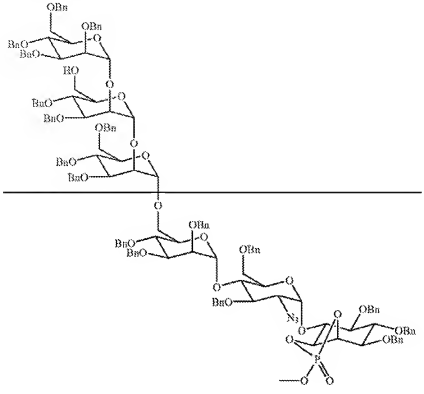

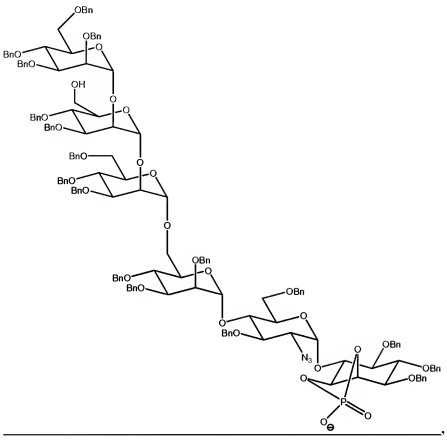

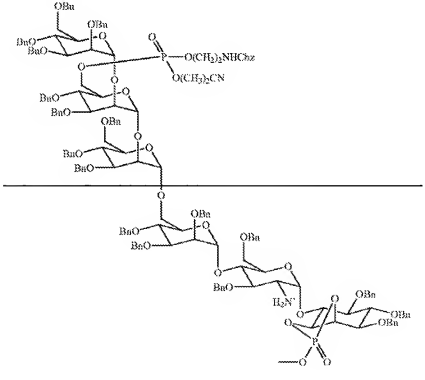

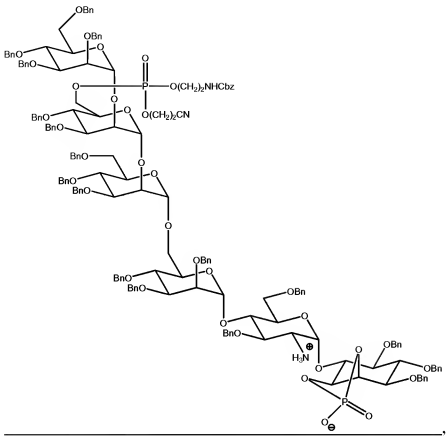
OBn
OBn
BnO
BnO
O
P
O(CH2)2NHCbz
O(CH2)2CN
BnO
BnO
BnO
BnO
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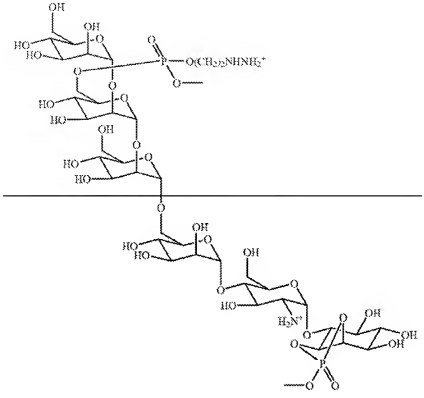
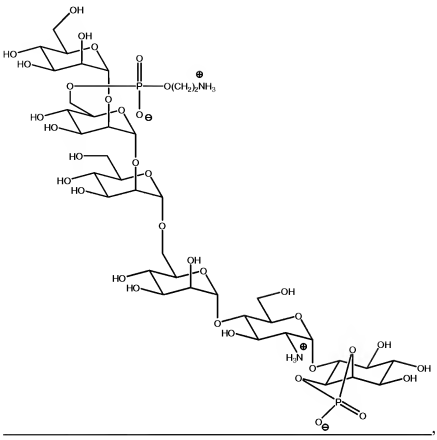
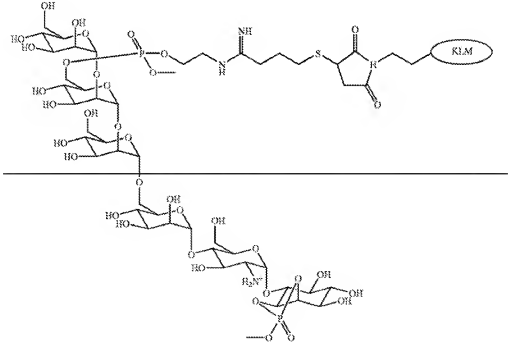
OBn
BnO
OBn
BnO
H2N
OBn
OBn
OBn
O
O
P
O

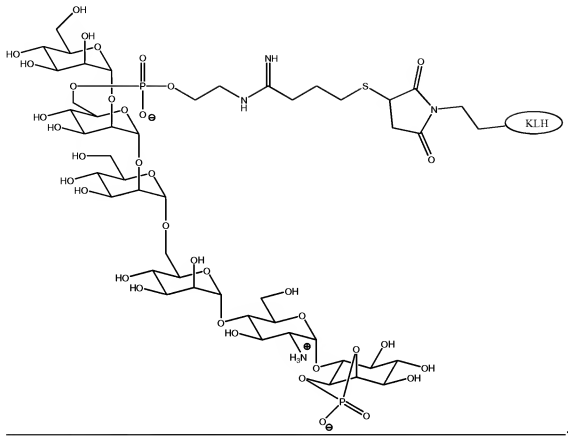
,



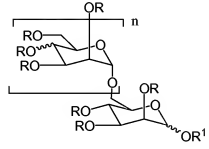


, and





11. (**previously presented**) A compound represented by formula **II**:



II

wherein,

n is 3, or 4;

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 is -$(CH_2)_m$CH=CH_2 or trichloroacetimidate; and

m is 1-6.

12. **(canceled)**

13. **(original)** The compound of claim 11, wherein n is 3.

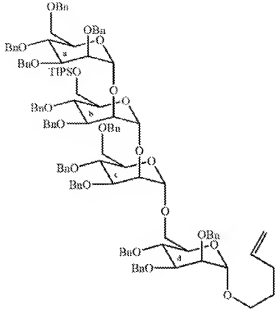
14. **(original)** The compound of claim 11, wherein m is 3.

15. **(original)** The compound of claim 11, wherein R represents independently for each occurrence $-CH_2$-aryl or $-Si(alkyl)_3$.

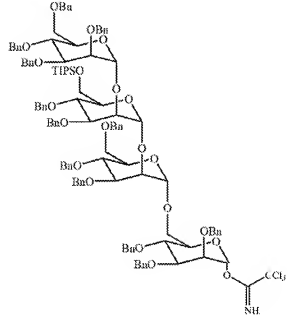
16. **(original)** The compound of claim 11, wherein R represents independently for each occurrence benzyl or $-Si(iPr)_3$.

17. **(previously presented)** The compound of claim 11, wherein R^1 is trichloroacetimidate and R represents independently for each occurrence benzyl or $-Si(iPr)_3$.

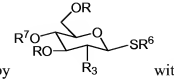
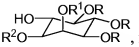
18. **(previously presented)** The compound of claim 11, wherein said compound of formula **II** is selected from the group consisting of:



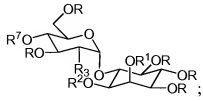
and



19. **(previously presented)** A method comprising the step of:

admixing a compound represented by  with a compound represented by  , followed by the addition, together or separately of *N*-

iodosuccinimide and silver triflate, thereby forming a compound represented by



; wherein,

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 and R^2 are independently H, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or P(O)OR^5;

R^3 is amino, -N_3, or -NH_3X;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group;

R^6 is alkyl or aryl;

R^7 is alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$; and

X is a halogen, alkyl carboxylate, or aryl carboxylate.

20. (**original**) The method of claim 19, wherein R is -CH_2-aryl.

21. (**original**) The method of claim 19, wherein R^1 and R^2 taken together are $C(CH_3)_2$.

22. (**original**) The method of claim 19, wherein R^3 is -N_3.

23. (**original**) The method of claim 19, wherein R^6 is alkyl.

24. (**original**) The method of claim 19, wherein R^7 is -C(O)-alkyl.

25. (**original**) The method of claim 19, wherein R is benzyl, R^1 and R^2 taken together are $C(CH_3)_2$, and R^3 is -N_3.

26. (**original**) The method of claim 19, wherein R is benzyl, R^1 and R^2 taken together are $C(CH_3)_2$, R^3 is -N_3, and R^6 is ethyl.

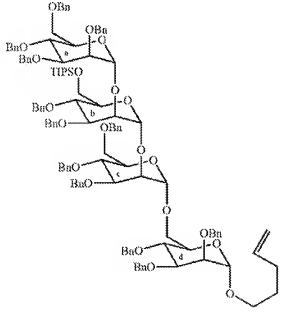
27. (**previously presented**) A method of preparing a tetrasaccharide, comprising the steps of:

covalently binding a mannopyranoside to a solid support to provide a first substrate, reacting said first substrate with a mannopyranose trichloroacetimidate to give a disaccharide bound to said solid support, reacting said disaccharide with a mannopyranose trichloroacetimidate to give a triisaccharide bound to said solid support, reacting said trisaccharide with a mannopyranose trichloroacetimidate to give a tetrasaccharide bound to said solid support, and cleaving said tetrasaccharide from said solid support.

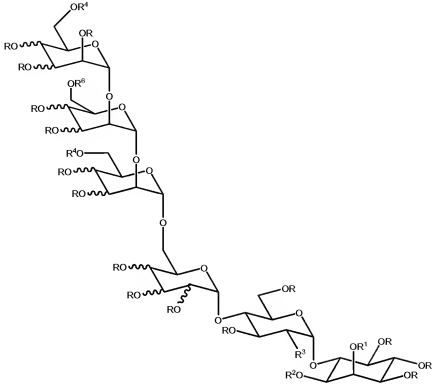
28. (**original**) The method of claim 27, wherein said mannopyranoside is bound to said solid support through a glycosidic linkage.

29. (**original**) The method of claim 27, wherein said tetrasaccharide is cleaved from said solid support using Grubbs' catalyst.

30. (**previously presented**) The method of claim 27, wherein said tetrasaccharide is



31. **(new)** A compound represented by formula **I**:



I

wherein,

R represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, or -Si(alkyl)$_3$;

R^1 and R^2 are independently H, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$; or R^1 and R^2 taken together are $C(CH_3)_2$, P(O)OH, or P(O)OR^5;

R^3 is amino, -N_3, or -NH_3X;

R^4 represents independently for each occurrence H, alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$, or -P(O)$(OR^5)_2$;

R^5 represents independently for each occurrence H, Li^+, Na^+, K^+, Rb^+, Cs^+, aryl, or an optionally substituted alkyl group; and

R^6 represents independently for each occurrence alkyl, aryl, -CH_2-aryl, -C(O)-alkyl, -C(O)-aryl, -Si(alkyl)$_3$, or -P(O)$(OR^5)_2$;

X is a halogen, alkyl carboxylate, or aryl carboxylate.

32. (**new**) The compound of claim 31, wherein R is H.

33. (**new**) The compound of claim 31, wherein R^1 and R^2 taken together are $P(O)OR^5$.

34. (**new**) The compound of claim 31, wherein R^3 is $-NH_3X$.

35. (**new**) The compound of claim 31, wherein R^4 is H.

36. (**new**) The compound of claim 31, wherein R^6 is $-P(O)(OR^5)_2$.

37. (**new**) The compound of claim 31, wherein R is H; R^1 and R^2 taken together are $P(O)OR^5$; R^3 is $-NH_3X$; R^4 is H; and R^6 is $-P(O)(OR^5)_2$.